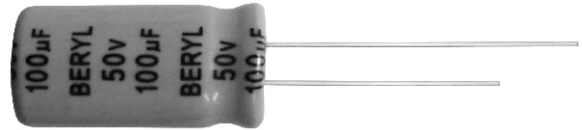


NP Series

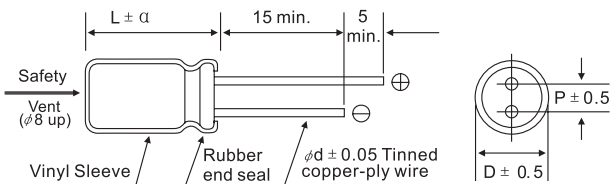
- 85°C Standard Bi-polarized type
- RoHS Compliant



■ 規格表 SPECIFICATIONS

項目 Items	特性參數 Characteristics	
使用溫度範圍 Category Temperature Range	-40 ~ +85°C	
額定工作電壓範圍 Rated Voltage Range	6.3 ~ 100V	
靜電容量允許偏差 Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)	
漏電流 Leakage Current	$I \leq 0.06CV$ or $10 \mu A$. Which is greater after application of rated Voltage for 2 minutes. 施加額定工作電壓2分鐘後讀數,二者取大值。 $I \leq 0.03CV$ or $3 \mu A$. which greater after application of rated Voltage for 5 minutes. 施加額定工作電壓5分鐘後讀數,二者取大值. (at 20°C) I: 漏電流 (μA), C: 靜電容量 (μF)、額定電壓 (V)	
損耗角正切值 tan δ Dissipation Factor	Rated voltage(V)	6.3 10 16 25 35 50 63 80 100
	tan δ (Max.)	0.24 0.24 0.20 0.20 0.16 0.14 0.12 0.12 0.10 (at 20°C, 120Hz)
標稱容量超過1000 μF, 則每增加1000 μF, 損耗角正切值增加0.02 When nominal capacitance exceeds 1000 μF, add 0.02 to the value above for each 1000 μF increase		
低溫特性 Low temperature Characteristics (Max. Impedance Ratio)	電容器低溫的阻抗比值, 不應超過下表所列出的值 Impedance ratio values must not exceed values listed in below table.	
	Rated voltage(V)	6.3 10 16 25 35 50 63 80 100
	Z(-25°C)/Z(+20°C) Z(-40°C)/Z(+20°C)	4 3 2 2 2 2 2 2 2 10 8 6 4 3 3 3 3 3 (at 120Hz)
耐久性 Endurance	85°C 施加額定工作電壓和額定紋波電流2000小時, 恢復到20°C後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current for 2000 hours at 85°C.	
	Rated voltage	6.3 ~ 16V 25 ~ 100V
	Capacitance change	≅ ±25% of the initial value ≅ ±20% of the initial value
	D.F. (tan δ)	≅ 150% of the specified value
高溫儲存特性 Shelf Life	85°C 存放1000小時, 恢復到20°C後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied.	
	Rated voltage	6.3 ~ 16V 25 ~ 100V
	Capacitance change	≅ ±25% of the initial value ≅ ±20% of the initial value
	D.F. (tan δ)	≅ 150% of the specified value
	Leakage current	≅ The specified value

■ 外形圖 DIMENSIONS (mm)



ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

WV(V) Cap(μF)	6.3(0J)	10(1A)	16(1C)	25(1E)	35(1V)	50(1H)	63(1J)	80(1K)	100(2A)
0.47						5 × 11	12		5 × 11
1.0						5 × 11	18		5 × 11
2.2						5 × 11	25	5 × 11	29
3.3						5 × 11	28	5 × 11	27
4.7						5 × 11	34	63 × 11	35
10					5 × 11	44	63 × 11	53	63 × 11
22			5 × 11	56	63 × 11	66	63 × 11	74	8 × 12
33			5 × 11	72	63 × 11	82	8 × 12	100	8 × 12
47		5 × 11	77	63 × 11	95	63 × 11	95	8 × 12	125
100	63 × 11	126	63 × 11	125	8 × 12	165	8 × 12	165	10 × 16
220	8 × 12	216	8 × 12	216	10 × 13	275	10 × 16	310	13 × 20
330	8 × 12	265	10 × 16	345	10 × 16	370	13 × 20	450	13 × 20
470	10 × 13	371	10 × 16	415	10 × 20	485	13 × 20	550	13 × 26
1,000	10 × 20	650	13 × 20	720	13 × 25	850	16 × 26	950	16 × 32
2,200	13 × 25	1,170	16 × 26	1,285	16 × 32	1,520	18 × 36	1,625	
3,300	16 × 26	1,570	16 × 32	1,690	18 × 36	1,985			
4,700	16 × 32	2,030	18 × 36	2,165					
6,800	18 × 36	2,610							

NP Series